

POLYMER FILM COMPOSITE TRANSDUCER

ABSTRACT OF THE DISCLOSURE

5       A composite piezoelectric transducer, whose  
piezoelectric element is a "ribbon wound" film of  
piezoelectric material. As the film is excited, it  
expands and contracts, which results in expansion and  
contraction of the diameter of the entire ribbon winding.  
This is accompanied by expansion and contraction of the  
thickness of the ribbon winding, such that the sound  
radiating plate may be placed on the side of the winding.